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# **WATER SUPPLY OUTLOOK FOR MONTANA**



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MAR 18 1976

**U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE**

Collaborating with

**MONTANA AGRICULTURAL EXPERIMENT STATION**

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF  
**MAR. 1, 1976**

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on a measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SURVEYOR ENROUTE TO THE MT. BALDY ARIZONA SNOW COURSE  
SCS PHOTO AZ-5460

### PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 111, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bazeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



# **WATER SUPPLY OUTLOOK FOR MONTANA**

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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SOIL CONSERVATION SERVICE  
WASHINGTON, D C

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# MONTANA WATER SUPPLY OUTLOOK

March 1, 1976

\* \* \* \* \*

\* With the exception of a small area west of Kalispell and Polson and the Bearpaw Mountains near Havre, the mountain snowpack is average or above. A large snowpack exists in the extreme headwaters of the Clark Fork along the continental divide southwest of Dillon and the Yellowstone River headwaters in Yellowstone National Park.

\* Soil moisture under the snowpack is near average in the Yellowstone River drainage, portions of the Madison and Gallatin Rivers, and the Lower Clark Fork and Fisher River drainage, and generally above average elsewhere.

\* Streamflows are forecast to be near average in the Kootenai and Flathead Rivers and tributaries to the Lower Clark Fork Rivers west of the divide. The Beaverhead, Smith, Judith, Musselshell, and Little Bighorn Rivers east of the divide are also forecast to have near average runoff. Well above average streamflow is expected in Nevada Creek and extreme headwaters of the Clark Fork and on tributaries entering the Yellowstone River between Livingston and Billings. Other streams throughout the state can expect above average runoff.

\* \* \* \* \*

## COLUMBIA RIVER DRAINAGE

Snow - Record or near record snowpack was measured at some areas in the Upper Clark Fork drainage. Below average water content was observed in the area west of Kalispell and Polson toward the Kootenai-Flathead divide. Most of the Kootenai and Flathead River basins have near average snowpack while the Bitterroot and Blackfoot River areas have above average. In general, the lower elevation snowpack is near or below average while higher elevations are average or above.

Streamflow -Soil moisture under the snowpack is generally above average except for near average in the Lower Clark Fork and Kootenai River drainages south of Libby. Streamflow is forecast near average in the Kootenai and Flathead River basins except for a little below average flows in the Stillwater and Whitefish River areas. Above average runoff is forecast for streams in the Bitterroot and Blackfoot River drainages. Large streamflow volumes are predicted for Nevada Creek and the extreme Upper Clark Fork River drainage. Late season irrigation water supplies are expected to be above average for most irrigated areas.

# THE HISTORY OF THE CITY OF BOSTON

FROM THE FIRST SETTLEMENT  
TO THE PRESENT TIME  
BY  
JOSEPH NEALE  
OF THE BOSTON BAR  
IN TWO VOLUMES  
VOL. I.  
BOSTON: PUBLISHED BY  
J. NEALE, 1822.

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## MISSOURI RIVER BASIN

Snow - The mountain snowpack is well above average along the continental divide near Butte and in parts of the Big Hole, Boulder, Beaverhead, and Madison Rivers. Near average snowpack conditions exist in the extreme headwaters of the Red Rock River, in the Sun, Marias, Teton, Milk, and St. Mary drainages, and in the mountain ranges of Central Montana. Low elevations generally have less snow percentagewise than do the higher elevations.

Streamflow - Soils under the snowpack are wetter than normal except for near average conditions in parts of the Gallatin and Upper Madison River drainages. Spring and summer streamflow is forecast to be near average in the Beaverhead, Deerborn, Teton, Sun, Marias, Milk, Smith, Judith, and Musselshell River drainages. All other areas can expect above average runoff. Late season irrigation supplies should be above average in most areas.

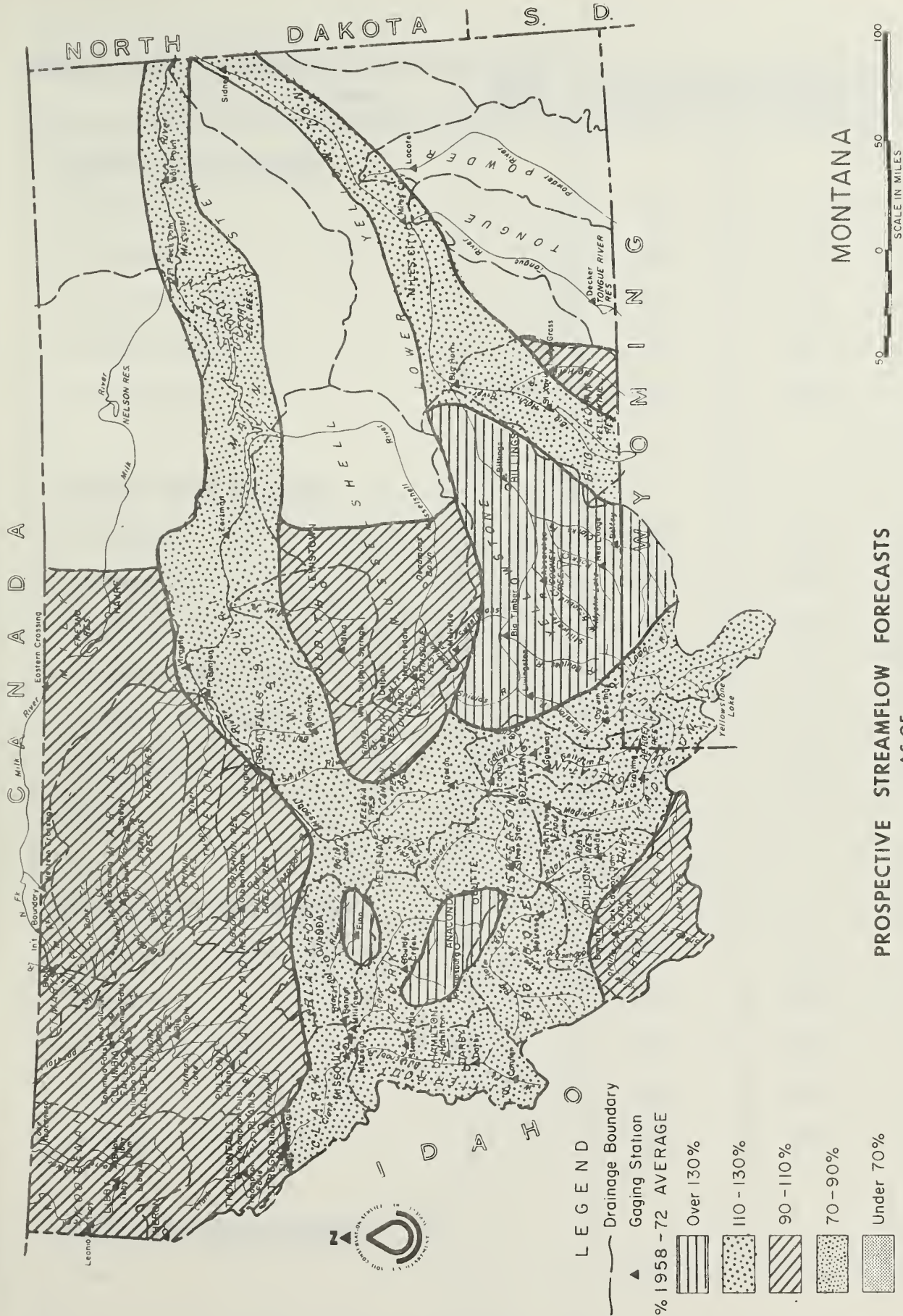
## YELLOWSTONE RIVER DRAINAGE

Snow - Above average snowpack is present over much of the Yellowstone River drainage. Well above average snow cover exists over most of Yellowstone National Park. Near average amounts of snow water content are found in the Crazy Mountains, Bighorn River headwaters in Wyoming and the north end of the Bighorn Mountains. Higher elevations generally have a better snowpack percentagewise than do the lower elevations.

Streamflow - Moisture stored in the soil under the snowpack is generally near average. Runoff during the spring and summer months is forecast to be near average in the Little Bighorn drainage, above average in the Bighorn and Lower Yellowstone River areas and well above average in the Yellowstone River and its tributaries above Billings.









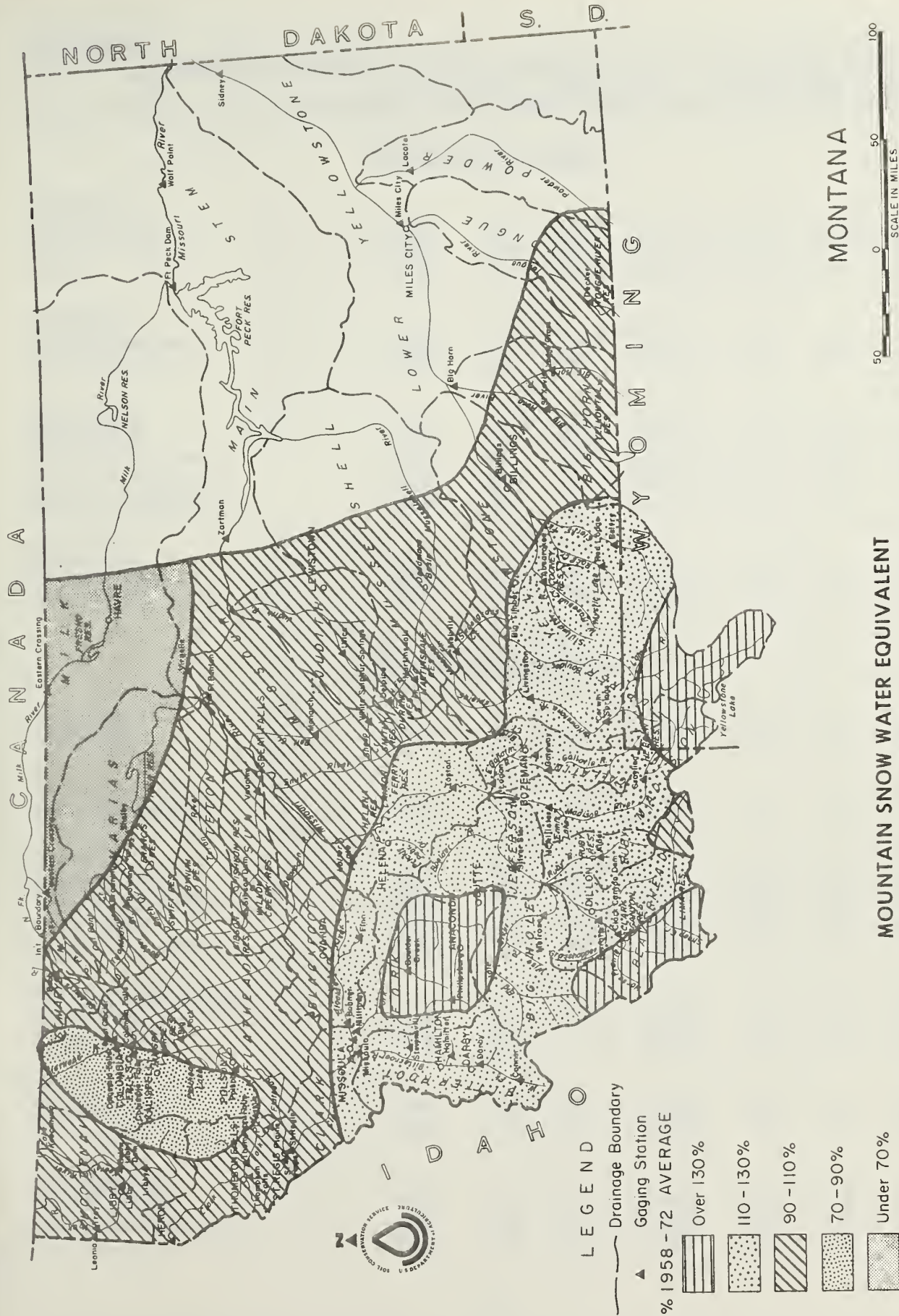
# SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF:	
		Last Year	Average
<u>COLUMBIA RIVER DRAINAGE</u>			
Kootenai	27	93	99
Flathead	29	97	97
Upper Clark Fork	26	111	119
Lower Clark Fork	13	99	107
Bitterroot	10	109	125
<u>MISSOURI RIVER DRAINAGE</u>			
Jefferson	50	110	118
Madison	23	121	121
Gallatin	13	107	110
Missouri Main Stem	12	110	111
Judith-Musselshell	14	98	99
Marias-Teton-Sun	9	120	106
Milk	3	77	77
<u>YELLOWSTONE RIVER DRAINAGE</u>			
Yellowstone (above Bighorn)	27	120	119
Big Horn	30	98	106
Little Big Horn	7	92	102
Tongue	12	88	103
Powder	6	117	116
<u>SASKATCHEWAN RIVER DRAINAGE</u>			
Bow	4	107	96

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# SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average †

## COLUMBIA RIVER BASIN

### Kootenai

Baree Trail	3800	48	7.5	-	-	6.4	6.3
Murphy Lake R. S.	3000	48	22.6	3/01	19.3	20.3	20.2
Raven	3050	48	23.0	3/04	16.7	16.1	18.7

### Flathead

Desert Mountain	5600	54	8.4	2/27	8.7	5.4	7.2
Marias Pass	5250	54	6.5	2/23	6.2	4.0	5.3

### Clark Fork

Black Pine	7100	48	10.0	3/01	8.2	7.2	7.4
Lubrecht Forest	4100	48	26.8	3/04	23.6	15.1	15.2
Seeley Lake R. S.	4030	48	11.9	3/04	11.4	8.6	8.0
Skalkaho Summit	7260	48	10.8	2/22	10.4	9.5	9.7

### Bitterroot

Gibbons Pass	7100	48	7.1	2/26	5.9	3.4	4.8
Lolo Pass	5250	48	10.6	2/26	7.1	4.7	5.9

## MISSOURI RIVER BASIN

### Beaverhead

Lakeview	6700	48	15.3	2/29	10.8	8.2	9.8
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### Madison

West Yellowstone	6700	48	6.5	2/29	1.8	1.8	2.5
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### Gallatin

Bridger Bowl	7250	48	17.0	2/25	16.0	14.9	16.0
College Site No. 2	4856	54	17.7	2/27	16.8	15.4	14.1
Lick Creek	6860	48	18.8	2/26	13.6	13.3	15.8
Twenty-One Mile	7150	48	10.0	2/29	3.2	3.0	4.3

### Missouri Main Stem

Kings Hill	7420	48	11.8	2/26	7.6	7.2	6.8
Stemple Pass	6350	48	5.9	3/01	5.3	3.5	4.0

### Milk

Beaver Creek	3950	48	20.9	2/25	8.6	7.4	10.0
Rocky Boy	4700	36	10.1	2/26	7.5	7.3	7.1

### Yellowstone

Battle Ridge	6020	48	17.6	2/25	12.8	13.2	13.4
Northeast Entrance	7350	48	9.4	3/01	4.9	3.8	5.9
PMC Dryland	3700	48	20.7	3/01	7.1	6.3	-

1. The first part of the document discusses the importance of maintaining accurate records of all transactions.

### 2. The second part of the document discusses the importance of maintaining accurate records of all transactions.

Date		Description		Amount		Total
Month	Year	From	To	Debit	Credit	
Jan	2020	John Doe	John Doe	100.00		100.00
Feb	2020	John Doe	John Doe	200.00		300.00
Mar	2020	John Doe	John Doe	300.00		600.00
Apr	2020	John Doe	John Doe	400.00		1000.00
May	2020	John Doe	John Doe	500.00		1500.00
Jun	2020	John Doe	John Doe	600.00		2100.00
Jul	2020	John Doe	John Doe	700.00		2800.00
Aug	2020	John Doe	John Doe	800.00		3600.00
Sep	2020	John Doe	John Doe	900.00		4500.00
Oct	2020	John Doe	John Doe	1000.00		5500.00
Nov	2020	John Doe	John Doe	1100.00		6600.00
Dec	2020	John Doe	John Doe	1200.00		7800.00
Jan	2021	John Doe	John Doe	1300.00		9100.00
Feb	2021	John Doe	John Doe	1400.00		10500.00
Mar	2021	John Doe	John Doe	1500.00		12000.00
Apr	2021	John Doe	John Doe	1600.00		13600.00
May	2021	John Doe	John Doe	1700.00		15300.00
Jun	2021	John Doe	John Doe	1800.00		17100.00
Jul	2021	John Doe	John Doe	1900.00		19000.00
Aug	2021	John Doe	John Doe	2000.00		21000.00
Sep	2021	John Doe	John Doe	2100.00		23100.00
Oct	2021	John Doe	John Doe	2200.00		25300.00
Nov	2021	John Doe	John Doe	2300.00		27600.00
Dec	2021	John Doe	John Doe	2400.00		30000.00
Jan	2022	John Doe	John Doe	2500.00		32500.00
Feb	2022	John Doe	John Doe	2600.00		35100.00
Mar	2022	John Doe	John Doe	2700.00		37800.00
Apr	2022	John Doe	John Doe	2800.00		40600.00
May	2022	John Doe	John Doe	2900.00		43500.00
Jun	2022	John Doe	John Doe	3000.00		46500.00
Jul	2022	John Doe	John Doe	3100.00		49600.00
Aug	2022	John Doe	John Doe	3200.00		52800.00
Sep	2022	John Doe	John Doe	3300.00		56100.00
Oct	2022	John Doe	John Doe	3400.00		59500.00
Nov	2022	John Doe	John Doe	3500.00		63000.00
Dec	2022	John Doe	John Doe	3600.00		66600.00
Jan	2023	John Doe	John Doe	3700.00		70300.00
Feb	2023	John Doe	John Doe	3800.00		74100.00
Mar	2023	John Doe	John Doe	3900.00		78000.00
Apr	2023	John Doe	John Doe	4000.00		82000.00
May	2023	John Doe	John Doe	4100.00		86100.00
Jun	2023	John Doe	John Doe	4200.00		90300.00
Jul	2023	John Doe	John Doe	4300.00		94600.00
Aug	2023	John Doe	John Doe	4400.00		99000.00
Sep	2023	John Doe	John Doe	4500.00		103500.00
Oct	2023	John Doe	John Doe	4600.00		108100.00
Nov	2023	John Doe	John Doe	4700.00		112800.00
Dec	2023	John Doe	John Doe	4800.00		117600.00
Jan	2024	John Doe	John Doe	4900.00		122500.00
Feb	2024	John Doe	John Doe	5000.00		127500.00
Mar	2024	John Doe	John Doe	5100.00		132600.00
Apr	2024	John Doe	John Doe	5200.00		137800.00
May	2024	John Doe	John Doe	5300.00		143100.00
Jun	2024	John Doe	John Doe	5400.00		148500.00
Jul	2024	John Doe	John Doe	5500.00		154000.00
Aug	2024	John Doe	John Doe	5600.00		159600.00
Sep	2024	John Doe	John Doe	5700.00		165300.00
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Nov	2024	John Doe	John Doe	5900.00		177000.00
Dec	2024	John Doe	John Doe	6000.00		183000.00
Jan	2025	John Doe	John Doe	6100.00		189100.00
Feb	2025	John Doe	John Doe	6200.00		195300.00
Mar	2025	John Doe	John Doe	6300.00		201600.00
Apr	2025	John Doe	John Doe	6400.00		208000.00
May	2025	John Doe	John Doe	6500.00		214500.00
Jun	2025	John Doe	John Doe	6600.00		221100.00
Jul	2025	John Doe	John Doe	6700.00		227800.00
Aug	2025	John Doe	John Doe	6800.00		234600.00
Sep	2025	John Doe	John Doe	6900.00		241500.00
Oct	2025	John Doe	John Doe	7000.00		248500.00
Nov	2025	John Doe	John Doe	7100.00		255600.00
Dec	2025	John Doe	John Doe	7200.00		262800.00
Jan	2026	John Doe	John Doe	7300.00		270100.00
Feb	2026	John Doe	John Doe	7400.00		277500.00
Mar	2026	John Doe	John Doe	7500.00		285000.00
Apr	2026	John Doe	John Doe	7600.00		292600.00
May	2026	John Doe	John Doe	7700.00		300300.00
Jun	2026	John Doe	John Doe	7800.00		308100.00
Jul	2026	John Doe	John Doe	7900.00		316000.00
Aug	2026	John Doe	John Doe	8000.00		324000.00
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Nov	2026	John Doe	John Doe	8300.00		348600.00
Dec	2026	John Doe	John Doe	8400.00		357000.00
Jan	2027	John Doe	John Doe	8500.00		365500.00
Feb	2027	John Doe	John Doe	8600.00		374100.00
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May	2027	John Doe	John Doe	8900.00		400500.00
Jun	2027	John Doe	John Doe	9000.00		409500.00
Jul	2027	John Doe	John Doe	9100.00		418600.00
Aug	2027	John Doe	John Doe	9200.00		427800.00
Sep	2027	John Doe	John Doe	9300.00		437100.00
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Nov	2027	John Doe	John Doe	9500.00		456000.00
Dec	2027	John Doe	John Doe	9600.00		465600.00
Jan	2028	John Doe	John Doe	9700.00		475300.00
Feb	2028	John Doe	John Doe	9800.00		485100.00
Mar	2028	John Doe	John Doe	9900.00		495000.00
Apr	2028	John Doe	John Doe	10000.00		505000.00
May	2028	John Doe	John Doe	10100.00		515100.00
Jun	2028	John Doe	John Doe	10200.00		525300.00
Jul	2028	John Doe	John Doe	10300.00		535600.00
Aug	2028	John Doe	John Doe	10400.00		546000.00
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Nov	2028	John Doe	John Doe	10700.00		577800.00
Dec	2028	John Doe	John Doe	10800.00		588600.00
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Jul	2029	John Doe	John Doe	11500.00		667000.00
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Jan	2030	John Doe	John Doe	12100.00		738100.00
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Mar	2030	John Doe	John Doe	12300.00		762600.00
Apr	2030	John Doe	John Doe	12400.00		775000.00
May	2030	John Doe	John Doe	12500.00		787500.00
Jun	2030	John Doe	John Doe	12600.00		800100.00
Jul	2030	John Doe	John Doe	12700.00		812800.00
Aug	2030	John Doe	John Doe	12800.00		825600.00
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Nov	2030	John Doe	John Doe	13100.00		864600.00
Dec	2030	John Doe	John Doe	13200.00		877800.00
Jan	2031	John Doe	John Doe	13300.00		891100.00
Feb	2031	John Doe	John Doe	13400.00		904500.00
Mar	2031	John Doe	John Doe	13500.00		918000.00
Apr	2031	John Doe	John Doe	13600.00		931600.00
May	2031	John Doe	John Doe	13700.00		945300.00
Jun	2031	John Doe	John Doe	13800.00		959100.00
Jul	2031	John Doe	John Doe	13900.00		973000.00
Aug	2031	John Doe	John Doe	14000.00		987000.00
Sep	2031	John Doe	John Doe	14100.00		1001100.00
Oct	2031	John Doe	John Doe	14200.00		1015300.00
Nov	2031	John Doe	John Doe	14300.00		1029600.00
Dec	2031	John Doe	John Doe	14400.00		1044000.00
Jan	2032	John Doe	John Doe	14500.00		1058500.00
Feb	2032	John Doe	John Doe	14600.00		1073100.00
Mar	2032	John Doe	John Doe	14700.00		1087800.00
Apr	2032	John Doe	John Doe	14800.00		1102600.00
May	2032	John Doe	John Doe	14900.00		1117500.00
Jun	2032	John Doe	John Doe	15000.00		1132500.00
Jul	2032	John Doe	John Doe	15100.00		1147600.00
Aug	2032	John Doe	John Doe	15200.00		1162800.00
Sep	2032	John Doe	John Doe	15300.00		1178100.00
Oct	2032	John Doe	John Doe	15400.00		1193500.00
Nov	2032	John Doe	John Doe	15500.00		1209000.00
Dec	2032	John Doe	John Doe	15600.00		1224600.00
Jan	2033	John Doe	John Doe	15700.00		1240300.00
Feb	2033	John Doe	John Doe	15800.00		1256100.00
Mar	2033	John Doe	John Doe	15900.00		1272000.00
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May	2033	John Doe	John Doe	16100.00		1304100.00
Jun	2033	John Doe	John Doe	16200.00		1320300.00
Jul	2033	John Doe	John Doe	16300.00		1336600.00
Aug	2033	John Doe	John Doe	16400.00		1353000.00
Sep	2033	John Doe	John Doe	16500.00		1369500.00
Oct	2033	John Doe	John Doe	16600.00		1386100.00
Nov	2033	John Doe	John Doe	16700.00		1402800.00
Dec	2033	John Doe	John Doe	16800.00		1419600.00
Jan	2034	John Doe	John Doe	16900.00		1436500.00
Feb	2034	John Doe	John Doe	17000.00		1453500.00
Mar	2034	John Doe	John Doe	17100.00		1470600.00
Apr	2034	John Doe	John Doe	17200.00		1487800.00
May	2034	John Doe	John Doe	17300.00		1505100.00
Jun	2034	John Doe	John Doe	17400.00		1522500.00
Jul	2034	John Doe	John Doe	17500.00		1540000.00
Aug	2034	John Doe	John Doe	17600.00		1557600.00
Sep	2034	John Doe	John Doe	17700.00		1575300.00
Oct	2034	John Doe	John Doe	17800.00		1593100.00
Nov	2034	John Doe	John Doe	17900.00		1611000.00
Dec	2034	John Doe	John Doe	18000.00		1629000.00
Jan	2035	John Doe	John Doe	18100.00		1647100.00
Feb	2035	John Doe	John Doe	18200.00		1665300.00
Mar	2035	John Doe	John Doe	18300.00		1683600.00
Apr	2035	John Doe	John Doe	18400.00		1702000.00
May	2035	John Doe	John Doe	1850		



**RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH**

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average
COLUMBIA RIVER BASIN					
Kootenai	Koocanusa	5,694.0	1,716.0	1,312.0	
Flathead	Hungry Horse	3,428.0	2,570.0	1,912.0	2,329.0
	Flathead Lake	1,791.0	925.5	816.1	1,009.0
	Camas (4)	45.2	18.1	19.0	24.5
	Mission Valley (8)	100.3	57.1	31.4	34.9
Clark Fork	Georgetown Lake	31.0	27.8	23.8	25.3
	Lower Willow Creek	4.6		1.6	1.2
	Nevada Creek	12.6		-	5.6
	Noxon Rapids	334.6	261.8	309.7	300.6
Bitterroot	Como	34.9		5.4	13.7
	Painted Rocks	31.7	30.3	0.0	21.3

**MISSOURI RIVER BASIN**

Beaverhead	Clark Canyon	328.9	150.4	115.2	141.4
	Lima	84.0		44.9	31.9
Ruby	Ruby	38.8		25.7	27.4
Madison	Hebgen Lake	377.5	288.3	256.9	202.6
	Ennis Lake	41.0	35.4	35.7	37.6
Gallatin	Middle Creek	8.0	3.9	3.9	3.6
Missouri	Canyon Ferry	2,043.0	1,693.0	1,433.0	1,608.0
	Hauser & Helena	61.9	62.5	63.0	57.4
	Lake Helena	10.4	10.7	10.9	9.0
	Holter Lake	81.9	79.0	81.7	51.2
	Smith River	10.6	9.6	-	6.3
	Bair	7.0		-	4.7
	Martinsdale	23.1		-	7.5
	Deadman's Basin	72.2	53.8	-	46.6
	Fort Peck Lake	19,140.0	17,340.0	15,700.0	13,110.0
Sun	Gibson	99.0	69.4	60.5	42.2
	Willow Creek	32.2	28.1	24.3	19.5
	Pishkun	32.0	17.6	17.9	17.4
Marias	Lower Two Medicine	11.9		6.3	
	Four Horns	19.2		14.0	
	Swift	30.0	17.7	10.0	17.9
	Lake Frances	111.9	94.0	31.0	78.3
	Tiber	1,347.0	570.8	487.3	546.8
Milk	Beaver Creek	3.5	1.3	1.2	-
	Fresno	127.2	117.3	80.2	56.8
	Nelson	66.8	49.8	46.3	41.2
	Lake Sherburne	66.2	33.1	18.2	21.9
Yellowstone	Mystic Lake	21.0	3.5	6.0	7.9
	Tongue River	68.0		36.8	32.6
	Cooney	27.4	12.0	12.2	14.7
Bighorn	Bighorn Lake	1,356.0	835.9	758.4	800.8





# STREAMFLOW FORECASTS

BASIN, STREAM and or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average	PERIOD	Last Year      Average

## COLUMBIA RIVER BASIN

KOOTENAI RIVER					
Libby (near) (2)	7350	99	Apr-Sept	6388	7456
Below Libby Dam	6400	100	Apr-July	5292	6417
	5000	100	Apr-June	3890	5011
FISHER RIVER					
Libby (near)	275	96	Apr-Sept		286
	260	97	Apr-July		269
YAAK RIVER					
Trov (near)	580	102	Apr-Sept		568
	560	103	Apr-July		544
KOOTENAI RIVER					
Leonia (at) (2)	8900	98	Apr-Sept	8093	9073
	7900	99	Apr-July	6846	7957
	6350	99	Apr-June	5298	6431
FLINT CREEK					
Boulder Creek (below) (3)	91.0	127	Apr-Sept		71.6
	75.0	134	Apr-July		56.1
INFLOW LOWER WILLOW CREEK RES.					
Hall (near)	22.6	140	Apr-Sept	28.0	16.2
	22.0	143	Apr-July	26.2	15.4
MIDDLE FORK ROCK CREEK					
Philipsburg (near)	98.0	129	Apr-Sept		75.9
	90.0	131	Apr-July		68.6
NEVADA CREEK					
Finn (near)	30.0	139	Apr-Sept		21.6
	28.0	139	Apr-July		20.1
BLACKFOOT RIVER					
Bonner (near)	1280	124	Apr-Sept	1371	1031
	1170	125	Apr-July	1227	934
	1020	125	Apr-June	974	814
CLARK FORK RIVER					
Milltown (above) (4)	990	125	Apr-Sept	1352	792
	880	128	Apr-July	1133	690
	750	127	Apr-June	858	590
CLARK FORK RIVER					
Missoula (above)	2270	124	Apr-Sept	2722	1823
	2050	126	Apr-July	2360	1624
	1770	126	Apr-June	1832	1404

(2) Adjusted for storage in Lake Koocanusa.

(3) Sum Flint Creek at Maxville and Boulder Creek at Maxville.

(4) Difference in observed flow Clark Fork above Missoula and Blackfoot near Bonner.



# STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
BASIN, STREAM and or FORECAST POINT					
WEST FORK BITTERROOT RIVER					
Conner (near) (5)	220	128	Apr-Sept		172
	200	128	Apr-July		156
BITTERROOT RIVER					
Darby (near)	750	128	Apr-Sept	736	584
	700	129	Apr-July	662	542
	620	129	Apr-June	502	479
SKALKAHO CREEK					
Hamilton (near)	67.0	118	Apr-Sept		56.6
	59.5	120	Apr-July		49.6
BURNT FORK CREEK					
Stevensville (near) (10)	42.0	119	Apr-Sept		35.3
	37.0	119	Apr-July		31.0
BITTERROOT RIVER					
Missoula (at) (6)	1920	126	Apr-Sept		1527
	1800	127	Apr-July		1412
	1550	125	Apr-June		1236
CLARK FORK RIVER					
Missoula (below)	4190	125	Apr-Sept		3350
	3850	127	Apr-July		3036
	3320	126	Apr-June		2640
CLARK FORK RIVER					
St. Regis (at)	5400	120	Apr-Sept	5750	4507
	4950	121	Apr-July	5035	4087
	4300	121	Apr-June	3805	3563
NORTH FORK FLATHEAD RIVER					
Columbia Falls (near)	1950	98	Apr-Sept		1991
	1800	99	Apr-July		1813
	1550	100	Apr-June		1551
MIDDLE FORK FLATHEAD RIVER					
West Glacier (near)	1900	99	Apr-Sept	2330	1917
	1780	101	Apr-July	2136	1768
	1510	100	Apr-June	1687	1514
SOUTH FORK FLATHEAD RIVER					
Columbia Falls (near) (7)	2400	101	Apr-Sept	2520	2378
	2250	100	Apr-July	2338	2240
	1980	100	Apr-June	1856	1984

- (5) Adjusted for storage in Painted Rocks Reservoir.  
 (6) Difference in observed flow Clark Fork above and below Missoula.  
 (7) Adjusted for storage in Hungry Horse Reservoir.  
 (10) Adjusted for diversion into Sunset Highline Canal.



# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
FLATHEAD RIVER					
Columbia Falls (at) (7)	6400	100	Apr-Sept	6794	6421
	6000	101	Apr-July	6346	5942
	5200	101	Apr-June	5041	5151
SWAN RIVER					
Big Fork (near)	740	103	Apr-Sept		717
	660	105	Apr-July		630
FLATHEAD RIVER					
Polson (near) (8)	7650	100	Apr-Sept	7895	7648
	7150	101	Apr-July	7142	7082
	6150	101	Apr-June	5631	6113
CLARK FORK RIVER					
Plains (near) (8)	13700	109	Apr-Sept	14101	12601
	12600	109	Apr-July	12542	11523
	10700	108	Apr-June	9669	9934
THOMPSON RIVER					
Thompson Falls (near)	290	105	Apr-Sept		277
	260	105	Apr-July		248
PROSPECT CREEK					
Thompson Falls (at)	155	105	Apr-Sept		147
	145	106	Apr-July		137
CLARK FORK RIVER					
Whitehorse Rapids (at) (9)	15400	109	Apr-Sept		14336
	14100	110	Apr-July		13086
	11900	107	Apr-June		11325

(7) Adjusted for storage in Hungry Horse Reservoir.

(8) Adjusted for storage in Hungry Horse Reservoir and Flathead Lake.

(9) Adjusted for storage in Hungry Horse, Flathead Lake, and Noxon Rapids Reservoirs.



# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average	PERIOD	Last Year Average

## MISSOURI RIVER BASIN

BEAVERHEAD RIVER					
Grant (near) (11) (12)	145	100	Apr-Sept	295	145
	130	102	Apr-July	248	127
RUBY RIVER					
Alder (near)	107	114	Apr-Sept		93.9
	92.0	116	Apr-July		79.4
BIG HOLE RIVER					
Melrose (near)	970	130	Apr-Sept		748
	900	130	Apr-July		694
BIRCH CREEK					
Glen (near)	17.8	130	Apr-Sept		13.7
	15.0	130	Apr-July		11.5
BOULDER RIVER					
Boulder (near)	115	128	Apr-Sept	184	89.5
	110	129	Apr-July	170	85.3
WILLOW CREEK					
Harrison (near)	23.5	124	Apr-Sept		18.9
	21.0	123	Apr-July		17.1
MADISON RIVER					
Grayling (near) (13)	570	119	Apr-Sept	529	480
	460	123	Apr-July	410	374
MADISON RIVER					
McAllister (near) (14)	1000	121	Apr-Sept	998	828
	810	124	Apr-July	792	652
GALLATIN RIVER					
Gateway (near)	625	118	Apr-Sept		531
	540	120	Apr-July		451

- (11) Adjusted for storage in Lima Reservoir.
- (12) Adjusted for storage in Clark Canyon Reservoir.
- (13) Adjusted for storage in Hebgen Lake.
- (14) Adjusted for storage in Hebgen and Ennis Lakes.





# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
HYALITE CREEK					
Bozeman (near) (15)	52.5	119	Apr-Sept		44.2
	46.0	120	Apr-July		38.2
GALLATIN RIVER					
Logan (at)	720	126	Apr-Sept		573
	630	129	Apr-July		487
MISSOURI RIVER					
Toston (at) (16)	3050	125	Apr-Sept	3875	2432
	2670	127	Apr-July	3280	2109
SHEEP CREEK					
White Sulphur Springs (near)	22.0	107	Apr-Sept		20.6
	19.0	106	Apr-July		18.0
SUN RIVER					
Gibson Dam (at) (17)	590	100	Apr-Sept	829	590
	540	100	Apr-July	764	541
BELT CREEK					
Monarch (near)	145	118	Apr-Sept		123
	135	119	Apr-July		113
MISSOURI RIVER					
Fort Benton (at) (18)	4350	118	Apr-Sept		3690
	3710	119	Apr-July		3123
TWO MEDICINE CREEK					
Browning (near) (19)	240	95	Apr-Sept		253
	230	96	Apr-July		240
BADGER CREEK					
Browning (near)	126	97	Apr-Sept		130
	110	97	Apr-July		113
MARIAS RIVER					
Shelby (near) (2)	530	95	Apr-Sept	1216	559
	510	95	Apr-July	1138	538

- (15) Adjusted for storage in Middle Creek Reservoir.
- (16) Adjusted for storage in Hegben and Ennis Lakes and Clark Canyon Reservoir.
- (17) Adjusted for storage in Gibson Reservoir and diversions.
- (18) Adjusted for storage in Canyon Ferry Reservoir.
- (19) Adjusted for storage in Two Medicine Reservoir and diversions into Two Medicine Canal.
- (20) Adjusted for storage in Two Medicine, Four Horns, Lake Frances, and Swift Reservoirs



# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
MISSOURI RIVER Virgelle (at) (21)	5000 4350	115 116	Apr-Sept Apr-July	4342 3742	
SOUTH FORK JUDITH RIVER Utica (near)	14.5 13.5	97 98	Apr-Spet Apr-July	14.9 13.7	
MISSOURI RIVER Landusky (near) (21)	5300 4650	112 114	Apr-Sept Apr-July	4739 4068	
NORTH FORK MUSSELSHELL RIVER Delpine (near)	6.5 5.6	105 104	Apr-Sept Apr-July	6.2 5.4	
SOUTH FORK MUSSELSHELL RIVER Martinsdale (above)	53.0 50.0	106 106	Apr-Sept Apr-July	50.1 47.3	
MISSOURI RIVER Fort Peck Dam (below) (22)	5300 4700	115 116	Apr-Sept Apr-July	4598 4069	
MILK RIVER Eastern Crossing (at)	260	91	Mar-Sept	286	
MISSOURI RIVER Wolf Point (near) (22)	5700 5100	116 117	Apr-Sept Apr-July	4898 4361	
MISSOURI RIVER Williston, N.D. (near) (29)	14700 13200	125 126	Apr-Sept Apr-July	11778 10437	

## SASKATCHEWAN RIVER BASIN

ST. MARY RIVER Babb (near) (30)	485 420	99 100	Apr-Sept Apr-July	489 421
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- (21) Adjusted for storage in Canuon Ferry and Tiber Reservoirs.  
 (22) Adjusted for storage in Canyon Ferry, Tiber, and Fort Peck Reservoirs.  
 (29) Adjusted for storage in Canyon Ferry, Tiber, Fort Peck, Buffalo Bill, Boysen, and Yellowtail Reservoirs, Sum Yellowstone River near Sidney and Missouri River near Culbertson.  
 (30) Adjusted for storage in Lake Sherburne.



# STREAMFLOW FORECASTS

BASIN, STREAM and or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average

## YELLOWSTONE RIVER BASIN

YELLOWSTONE RIVER					
Corwin Springs (at)	2600	130	Apr-Sept	2159	1996
	2200	132	Apr-July	1741	1662
YELLOWSTONE RIVER					
Livingston (near)	3100	134	Apr-Sept		2317
	2620	136	Apr-July		1926
BOULDER RIVER					
Big Timber (at)	510	135	Apr-Sept		379
	480	137	Apr-July		350
STILLWATER RIVER					
Absarokee (near) (25)	770	130	Apr-Sept		591
	660	134	Apr-July		494
CLARKS FORK RIVER					
Belfry (near)	800	132	Apr-Sept		607
	720	132	Apr-July		546
ROCK CREEK					
Red Lodge (near)	145	132	Apr-Sept	140	110
	110	131	Apr-July	111	84.0
INFLOW COONEY RES.					
Boyd (near)	61.8	120	Apr-Sept		51.5
	50.0	122	Apr-July		41.1
YELLOWSTONE RIVER					
Billings (at)	5800	136	Apr-Sept	6472	4246
	5010	139	Apr-July	5608	3613
BIGHORN RIVER					
St. Xavier (near) (26)	2300	124	Apr-Sept	2497	1849
	2100	123	Apr-July	2366	1706
LITTLE BIGHORN RIVER					
Lodgegrass (near) (28)	150	103	Apr-Sept		146
	135	105	Apr-July		129
YELLOWSTONE RIVER					
Miles City (at) (27)	8100	127	Apr-Sept		6378
	7300	131	Apr-July		5555
YELLOWSTONE RIVER					
Sidney (near) (27)	8650	130	Apr-Sept		6665
	7800	132	Apr-July		5895

(25) Adjusted for storage in Mystic Lake.

(26) Adjusted for storage in Buffalo Bill, Boysen, Bull Lake, and Yellowtail Reservoirs.

(27) Adjusted for storage in Buffalo Bill, Boysen, and Yellowtail Reservoirs.

(28) Sum Little Bighorn below Pass Creek and Lodgegrass Creek near Wyola.





# SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME	Elevation				Last Year	Average
ABUNDANCE LAKE	8800	2/22	70	19.2	16.6	17.7
AMBROSE	6480	3/02	56	15.0	11.4	11.7
ARCH FALLS	7350	2/26	41	13.9	13.0	10.9
BADGER PASS	6900	3/03	122	45.3	34.0	37.0
BALD RIDGE	7500	2/27	42	13.0	13.2	11.3
BANFIELD MOUNTAIN	5600	2/28	86	22.6	25.6	23.2
BANFIELD MOUNTAIN PILLOW	5600	2/28	SP	21.3	21.7	19.4
BARRE CREEK	5500	3/03	142	53.3	50.3	43.6
BARRE MIDWAY	4600	3/03	118	37.3	38.5	34.6
BARRE TRAIL	3800	3/02	42	9.4	13.3	10.5
BASIN CREEK	7180	2/26	40	11.4	-	-
BASSOO PEAK	5150	2/26	32	7.3	12.5	10.5
BATTLE RIDGE	6020	2/25	20	7.5	9.2	7.0
BEAR BASIN	8150	2/24	64	22.4	19.6	19.4
BEAR PAW SKI AREA	5200	2/26	13	3.7	6.3	6.3
BEAVER LAKE	5900	3/03	81	25.7	20.0	21.3
BERRY MEADOW	7000	2/23	25	6.8	7.9	7.5
BIG COULEE	5100	2/27	17	3.7	5.3	-
BIG CREEK	6750	2/25	96	36.2	36.5	41.7
BIG SKY	7700	3/01	58	15.8	13.7	13.4
BIG SKY MEADOW	6350	2/24	41	11.4	10.4	8.0
BIG SNOWY	7150	3/01	53	16.3	20.0	15.0
BIG SPRINGS (ID)	6500	2/26	64	21.5	18.0	18.6
BLACK BEAR	7950	2/27	109	43.0	32.1	-
BLACK BEAR PILLOW	7950	2/27	SP	36.2	29.4	-
BLACK CANYON	7850	2/27	96	36.0	27.8	29.4
BLACK MOOSE (ID)	8120	2/27	99	39.4	33.8	36.2
BLACK PINE	7100	3/01	58	17.2	12.4	11.9
BLACK PINE PILLOW	7100	3/01	SP	18.7	13.3	11.7
BLOODY DICK	7600	2/26	50	16.2	14.2	12.1
BLUE LAKE	5900	3/03	88	27.8	23.5	26.4
BOTS SOTS	8000	3/02	37	8.8	10.0	-
BOULDER MOUNTAIN	7950	2/24	60	21.2	17.9	16.3
BOW RIVER #1 (AL)	5100	2/24	33	7.9	6.7	8.1
BOXELDER CREEK	5100	2/26	0	.0	7.3	-
BRANHAM LAKES	8850	2/27	82	30.6	26.2	25.9
BRIDGER BOWL	7250	2/25	65	25.2	21.1	26.1
BRIDGER BOWL PILLOW	7250	2/25	SP	24.4	18.6	24.3
BRISTOW CREEK	3900	2/28	50	12.4	15.2	13.7
BRUSH CREEK TIMBER	5000	2/26	34	8.7	10.8	10.2
BULL MOUNTAIN	6600	2/27	25	5.6	6.6	-
CABIN CREEK	5200	2/29	23	5.5	6.1	7.2
CALL ROAD	8050	2/22	41	11.2	10.4	9.8
CALVERT CREEK	6450	2/27	47	12.4	12.0	9.1
CAMP CREEK (ID)	6800	2/26	28	6.9	10.9	9.0
CAMP MISERY	6400	2/25	105	39.0	40.8	42.2
CAMP SENIA	7890	3/02	28	6.6	7.4	5.2
CANYON (WY)	7750	2/29	61	18.6	12.2	13.9



## SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
					Last Year	Average
NAME	Elevation					
CARTER CREEK	7400	2/29	20	5.2	4.0	4.4
CEDAR GROVE	4100	2/26	48	13.1	13.7	11.6
CHESSMAN RESERVOIR	6200	3/02	18	4.0	4.5	3.1
CLOVER MEADOW	8600	2/22	56	17.7	16.0	14.7
COLE CREEK	7850	2/27	50	15.7	16.8	-
COLE CREEK PILLOW	7850	2/27	SP	15.3	15.4	-
COLLEY CREEK	6300	3/02	39	9.2	10.0	-
COMBINATION	5600	3/01	34	7.2	5.7	6.7
COMBINATION PILLOW	5600	3/01	SP	7.0	6.4	-
COOKE STATION	8150	2/25	64	21.9	17.8	17.6
COPPER BOTTOM	5200	2/27	48	11.9	8.8	11.1
COPPER BOTTOM PILLOW	5200	2/27	0	13.9	-	-
COPPER CAMP	6950	2/27	102	33.2	24.3	30.3
COPPER CAMP PILLOW	6950	2/27	0	38.1	-	-
COPPER CREEK	5700	2/27	54	13.6	13.3	15.4
COPPER LAKE CREEK	6100	2/27	81	24.3	21.0	22.6
COPPER MOUNTAIN	7700	3/01	48	12.9	12.0	10.0
COYOTE HILL	4200	2/25	35	9.9	12.4	10.4
CREVICE MOUNTAIN	8400	2/26	43	11.9	9.8	9.2
CRYSTAL LAKE	6100	3/01	40	10.6	13.2	12.3
DAD CREEK LAKE	8400	2/22	49	15.1	11.7	11.9
DAISY PEAK	7600	2/27	46	12.0	9.5	10.3
DALY CREEK	5780	2/25	43	12.4	11.4	-
DARKHORSE LAKE	8600	2/22	84	32.8	28.6	24.2
DAVIS CREEK	5400	2/24	65	18.6	26.9	23.8
DEADMAN CREEK	6450	2/25	33	10.0	10.2	11.4
DEADMAN CREEK PILLOW	6450	2/25	SP	8.5	9.7	9.8
DESERT MOUNTAIN	5600	2/27	45	13.5	13.4	14.7
DEVILS SLIDE	8100	2/26	61	22.4	21.9	20.2
DISCOVERY BASIN	7050	3/03	43	11.3	10.9	-
DIVIDE	7800	2/22	34	8.7	8.5	10.0
DIVIDE PILLOW	7800	2/22	0	7.4	-	-
DIX HILL	6400	2/29	45	12.0	9.2	-
EAST FORK R.S.	5400	2/22	30	7.0	8.0	6.7
ELK HORN SPRINGS	7800	3/03	41	11.0	8.7	8.4
ELK PEAK	8000	2/26	48	15.7	15.0	15.8
EMERY CREEK	4350	2/27	52	14.3	-	-
FATTY CREEK	5500	2/25	62	19.2	21.3	21.0
FERNIE (NE) (BC)	1070	3/03	39	9.6	-	-
FISH CREEK	8000	2/26	42	12.7	-	-
FISHER CREEK	9100	2/25	106	39.3	32.3	32.6
FISHER CREEK PILLOW	9100	2/25	SP	36.5	30.6	30.5
FLEECER RIDGE	7500	2/27	52	13.0	10.2	-
FOOLHEN	8280	2/22	58	19.1	13.2	15.6
FOUR MILE	6900	2/24	33	9.6	7.8	7.6
FRED BURR PASS	8000	3/01	86	29.5	21.9	23.5
FROHNER MEADOWS	6480	2/24	26	6.9	8.4	-
FROHNER MEADOWS PILLOW	6480	2/24	SP	4.3	7.7	-
GARVER CREEK	4250	2/24	29	7.2	13.1	12.3
GARVER CREEK PILLOW	4250	2/24	SP	7.4	10.7	10.7





## SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
					Last Year	Average
NAME	Elevation					
GIBBONS PASS	7100	2/24	68	24.1	24.9	20.5
GOAT MOUNTAIN	7000	3/01	43	11.1	8.9	10.3
GOLD STONE	8100	2/26	58	19.6	17.3	15.3
GRASSHOPPER	7000	2/26	18	4.0	5.3	5.1
GRAVE CREEK	4300	2/23	52	15.2	16.9	17.9
GRAVE CREEK PILLOW	4300	2/23	0	15.2	-	-
GRIFFIN CREEK DIVIDE	5150	2/25	33	8.6	15.0	11.6
GRIZZLY PEAK	8400	2/27	48	15.6	15.1	13.5
GUNSIGHT LAKE	6300	2/29	110	36.5	41.0	39.1
HAND CREEK	5030	2/26	44	10.1	-	-
HAWKINS LAKE	6450	2/24	89	30.2	32.1	28.3
HAWKINS LAKE PILLOW	6450	2/24	SP	28.5	24.5	26.4
HEART LAKE TRAIL	4800	3/02	83	22.3	24.9	21.2
HERGEN DAM	6550	3/02	46	14.7	13.6	10.8
HELL ROARING DIVIDE	5770	2/25	82	28.0	32.3	29.1
HIGHWOOD DIVIDE	5650	2/27	32	8.7	7.3	-
HIGHWOOD STATION	4600	2/27	7	1.9	4.3	-
HOLBROOK	4530	2/27	40	9.0	9.0	10.5
HOOD MEADOW	6600	2/26	36	11.8	11.4	9.8
HOODOO BASIN	6000	3/02	152	48.6	46.9	46.1
HOODOO BASIN PILLOW	6000	3/01	SP	47.2	42.6	45.8
HOODOO CREEK	5900	3/02	143	45.5	43.5	43.2
INDEPENDENCE	7850	3/01	64	21.8	18.3	17.5
INTERGAARD	6450	2/29	41	11.5	8.3	7.7
ISLAND PARK (ID)	6310	2/26	58	18.4	15.6	14.7
JACK CREEK	7500	2/25	23	6.0	4.7	4.8
JAHNKE LAKE TRAIL	7200	2/26	42	12.2	11.2	8.6
JOHNSON PARK	6450	2/27	30	7.4	6.6	7.4
KILGORE (ID)	6200	2/27	34	9.1	12.1	10.1
KINGS HILL	7500	2/25	41	12.8	12.7	12.5
KISHENEHN	3890	2/28	38	7.3	10.0	9.3
KIWANIS CAMP	3720	2/26	0	.0	3.2	-
LAKE CAMP (WY)	7850	2/27	41	11.3	7.3	8.2
LAKE CREEK	6100	3/03	32	9.0	8.5	6.2
LAKEVIEW CANYON	6930	2/27	35	9.8	10.6	11.1
LAKEVIEW RIDGE	7400	2/27	31	9.2	10.0	9.9
LATHAM SPRINGS (ID)	7650	2/27	93	35.0	27.8	27.9
LEMHI PASS	7480	2/22	38	11.2	9.8	7.9
LEMHI RIDGE	8100	2/22	44	13.6	11.3	8.9
LEMHI RIDGE PILLOW	8100	2/22	0	12.9	-	-
LICK CREEK	6860	2/26	35	10.1	10.1	8.8
LICK CREEK PILLOW	6860	2/26	SP	9.2	9.0	8.3
LITTLE PARK	7400	2/24	53	17.5	16.0	14.4
LOGAN CREEK	4300	2/26	28	6.6	9.2	8.1
LOLO PASS (ID)	5230	2/26	112	32.9	28.7	28.5
LOLO PASS PILLOW	5230	3/01	0	30.0	-	-
LONE MOUNTAIN	8880	3/01	78	24.8	20.7	20.6
LOOKOUT (ID)	5250	2/24	102	31.2	30.4	32.7
LOST SOUL	4800	2/27	59	15.0	17.7	16.6
LOWER TWIN	7900	2/24	60	21.0	20.0	18.6





# SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
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LUBRECHT FLUME	4800	2/25	25	6.5	8.3	6.5
LUBRECHT FLUME PILLOW	4800	2/25	SP	5.5	5.5	6.2
LUBRECHT FOREST # 3	5450	2/25	26	6.6	9.3	7.0
LUBRECHT FOREST # 4	4650	2/25	8	2.0	5.7	3.7
LUBRECHT HYDROPLOT	4200	2/25	21	5.5	7.6	5.4
LUPINE CREEK (WY)	7300	3/01	52	12.9	8.4	9.8
MADISON PLATEAU	7750	2/27	68	25.5	17.7	18.6
MADISON PLATEAU PILLOW	7750	2/27	SP	24.9	19.2	20.0
MARIAS PASS	5250	2/27	54	15.7	16.8	16.9
MAYNARD CREEK	6210	2/25	40	13.8	16.1	16.9
MAYNARD CREEK PILLOW	6210	2/25	SP	10.2	10.2	10.1
MEADOW CREEK PILLOW	4000	3/01	SP	5.7	7.7	-
MIDDLE MILL CREEK	7850	2/27	49	15.0	15.8	13.7
MILL CREEK	7500	3/02	53	14.3	12.6	11.7
MINERAL CREEK	4000	3/02	61	16.0	19.2	18.4
MIRROR LAKE #6 (AL)	6600	2/24	39	11.7	8.3	10.3
MONUMENT PEAK	8800	3/01	89	31.5	24.2	24.4
MOOSE CREEK (ID)	6200	3/01	66	18.6	17.2	15.2
MOUNT LOCKHART	6400	3/03	80	25.0	18.6	21.0
MOUNT LOCKHART PILLOW	6400	3/02	SP	22.2	-	18.7
MT. EISENHOWER #10 (AL)	5000	2/25	21	4.9	5.6	5.3
MUDD LAKE	7650	2/27	64	20.0	19.6	19.2
NEW WORLD	6900	2/25	45	15.4	15.2	13.1
NEZ PERCE CAMP	5580	2/22	56	15.6	17.9	13.0
NEZ PERCE CREEK	6500	3/01	34	8.4	7.8	6.3
NEZ PERCE PASS	6570	2/22	60	20.3	21.1	14.3
NOISY BASIN	6040	2/25	103	36.6	39.8	-
NOISY BASIN PILLOW	6040	2/25	SP	31.6	34.7	-
NOISY CREEK	3600	2/25	11	3.6	6.1	-
NORRIS BASIN (WY)	7500	2/29	48	12.5	10.4	9.9
NORTH FK. ELK CREEK	6250	2/26	50	12.7	14.3	10.5
NORTH FK. ELK CREEK PILL	6250	2/26	SP	13.3	13.4	10.9
NORTH FORK JOCKO	6330	2/26	123	43.9	45.2	42.5
NORTH MEADOW	7500	2/24	32	8.6	8.0	7.0
NORTHEAST ENTRANCE PILL.	7400	3/01	SP	12.0	8.6	8.3
NOTCH	8500	2/22	45	14.0	15.0	13.3
OLD FAITHFUL (WY)	7360	2/26	57	20.3	10.8	-
OPHIR PARK	7150	2/29	69	22.6	16.0	-
PETERSON MEADOWS	7200	2/26	42	12.4	10.4	8.3
PICKET PIN LOWER	6200	3/01	19	3.2	4.2	-
PICKET PIN MIDDLE	7250	3/01	58	19.2	18.9	-
PICKET PIN UPPER	8100	3/01	71	23.6	20.2	-
PICNIC GROUNDS	6200	3/01	21	4.6	5.0	4.1
PIPESTONE PASS	7200	3/01	34	7.6	6.0	4.5
PIPESTONE UPPER #2 (AL)	5300	2/25	29	6.5	8.4	8.5
POORMAN CREEK	5100	2/26	101	31.3	35.7	33.7
POORMAN CREEK PILLOW	5100	2/26	SP	27.6	34.0	28.7
PORCUPINE R.S.	6500	2/27	24	6.8	7.4	6.5
POTOMAGETON PARK	7150	2/26	47	14.2	14.4	11.8
RED MOUNTAIN	6000	2/28	65	17.8	19.8	17.4



# SNOW

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ROCK CREEK	5600	3/01	29	8.2	10.3	8.3
ROCK CREEK MEADOWS	8160	3/01	77	22.7	-	-
ROCKER PEAK	8000	2/23	51	16.8	13.0	13.7
ROCKER PEAK PILLOW	8000	2/23	SP	16.0	12.3	13.2
ROCKY BOY	4700	2/26	7	1.9	4.4	4.6
ROCKY BOY PILLOW	4700	2/26	SP	3.7	3.6	5.0
SACAJAWEA	6550	2/25	39	14.0	13.6	13.3
SADDLE MOUNTAIN	7940	2/26	78	27.2	25.3	22.7
SADDLE MOUNTAIN PILLOW	7940	2/26	SP	26.8	26.0	24.0
SAWTELL MOUNTAIN (ID)	8710	2/26	79	29.0	25.4	30.4
SENTINEL CREEK	8300	2/26	64	21.1	20.8	21.3
SHOWER FALLS	8100	2/26	64	24.5	22.9	21.6
SHOWER FALLS PILLOW	8100	2/26	SP	22.7	22.4	20.8
SILVER RUN	6630	2/27	24	5.3	7.1	-
SKALKAHO SUMMIT	7260	2/22	82	29.8	24.3	23.4
SLAG-A-MELT LAKE	8750	2/22	82	30.6	24.2	24.8
SLIDE ROCK MOUNTAIN	7100	2/26	69	20.2	15.4	14.6
SMUGGLER MINE	6960	2/27	31	7.6	10.5	9.1
SOUTH FORK SHIELDS	8100	2/27	65	23.0	21.6	21.4
SPOTTED BEAR MOUNTAIN	7000	2/29	52	16.3	14.0	14.7
SPUR PARK	8000	2/25	55	18.6	17.8	19.6
SPUR PARK PILLOW	8100	2/25	SP	19.7	18.5	20.0
STAHL PEAK	6050	2/23	97	34.7	33.6	37.6
STAHL PEAK PILLOW	6050	2/23	0	28.6	-	-
STEMPLE PASS	6600	3/03	48	11.9	10.7	9.8
STORM LAKE	7780	2/26	53	15.6	9.7	11.7
STUART MILL	6500	2/29	32	7.6	7.1	6.3
STUART MOUNTAIN	7400	2/29	96	34.6	31.9	28.9
SUCKER CREEK	3960	2/26	0	.0	.0	-
SYLVAN PASS (WY)	7100	2/27	55	17.1	12.0	11.9
TARGHEE PASS (ID)	7000	2/26	50	16.0	10.9	13.5
TAYLOR ROAD	4080	2/26	0	.0	3.7	-
TEN MILE LOWER	6600	3/01	38	7.1	7.7	6.9
TEN MILE MIDDLE	6800	3/01	55	13.3	11.8	10.4
TEN MILE UPPER	8000	3/01	62	17.0	12.3	12.7
TEPEE CREEK	8000	3/03	53	16.2	14.9	14.3
TEPEE CREEK PILLOW	8000	3/03	SP	12.7	11.9	-
THUMB DIVIDE (WY)	7900	2/25	63	18.8	13.9	19.0
TIMBERLINE CREEK	8850	3/02	65	17.8	14.3	12.6
TRAIL CREEK	7090	2/22	35	10.0	8.6	7.1
TRINKUS LAKE	6100	2/29	111	38.2	42.0	39.9
TV MOUNTAIN	6800	2/28	65	19.0	18.3	17.0
TWENTY-ONE MILE	7150	3/02	61	20.3	15.2	16.1
TWIN CREEKS	3580	3/03	38	11.6	13.5	12.3
VALLEY VIEW (ID)	6500	2/26	53	17.6	12.8	15.4
VERMILLION RIVER #3 (BC)	5150	3/01	46	11.2	11.7	10.4
VERMILLION RIVER #4 (BC)	5500	3/01	46	13.2	10.8	10.4
VERMILLION RIVER #5 (BC)	5150	3/01	44	11.2	10.1	9.3
WALDRON	5600	3/03	38	10.0	9.2	11.2
WALDRON PILLOW	5600	3/03	SP	8.1	9.0	11.9





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WEASEL DIVIDE	5450	2/23	92	30.8	33.0	32.6
WEST YELLOWSTONE	6700	3/02	54	17.0	9.6	10.6
WEST YELLOWSTONE PILLOW	6700	2/29	SP	10.8	6.8	7.7
WHISKEY CREEK	6800	2/27	66	24.0	17.3	18.5
WHITE ELEPHANT (ID)	7700	2/26	68	22.9	19.7	-
WHITE MILL	8700	2/25	83	30.4	22.2	24.1
WHITE MILL PILLOW	8700	2/25	SP	26.0	20.6	-
WHITE PINE RIDGE	8850	2/22	28	6.2	4.2	4.7
WILLOW CREEK	6500	2/27	34	9.5	8.2	-
WRONG CREEK	5700	2/27	54	13.6	12.2	14.6
WRONG RIDGE	6800	2/28	75	20.5	16.2	19.3

## LATE ARRIVING DATA

CARROT BASIN	9000	3/04	98	36.6	28.9	32.3
CARROT BASIN PILLOW	9000	3/04	SP	27.1	20.3	23.9
EL DORADO MINE	7800	3/04	80	27.1	17.2	18.7
FIVE-BULL	5700	3/04	21	5.5	5.5	7.0
FREIGHT CREEK	6000	3/04	52	15.1	12.5	14.5
GOLD CREEK LAKE	7200	3/04	64	20.0	12.4	13.8
LOST HORSE	5940	3/04	114	40.5	33.6	29.0
LUBRECHT FOREST #6	4040	3/04	13	3.4	6.0	4.3
NORTHEAST ENTRANCE	7400	3/03	45	12.9	10.8	8.4
TWELVEMILE CREEK	5600	3/04	88	26.7	25.2	18.8
TWELVEMILE CREEK PILLOW	5600	3/04	SP	21.9	17.6	16.4
TWIN LAKES	6510	3/04	132	47.2	40.2	37.2
TWIN LAKES PILLOW	6400	3/04	SP	47.9	40.5	37.7
UPPER HOLLAND LAKE	6200	3/04	102	33.8	36.0	33.7







## INDEX to MONTANA SNOW COURSES and DATA SITES

SNOW COURSES  
COLUMBIA RIVER BASIN

15411	5700	6	27H	319	3, 4, 5, 5, 6, 6	1
15408	5800			309	2, 3, 4, 5, 5, 6	1
15403	5811	36	26H	319	3, 4, 5, 5, 6	2
15400	5816	36	26H	319	3, 4, 5, 5, 6	2
15405	5820	31	26H	309	3, 4, 5, 5, 6	2
15402	5825	31	26H	309	3, 4, 5, 5, 6	2
15410	5860	2	32H	309	2, 3, 4, 5, 5, 6	1
16433	5900	12	30H	350	3, 4, 5, 5, 6	1, 2
15407	5905	15	30H	350	3, 4, 5, 5, 6	1
15404	5910	15	30H	350	3, 4, 5, 5, 6	1
15409	5920	12	37H	319	2, 3, 4, 5, 5, 6	1
15406	5940	20	37H	319	2, 3, 4, 5, 5, 6	1
15405	6239	18	37H	329	2, 3, 4, 5, 5, 6	1
16441	6300	1	36H	350	3, 4, 5, 5, 6	1
15401	6305	18	36H	350	3, 4, 5, 5, 6	1
15409	6350	10	36H	350	3, 4, 5, 5, 6	1
15409	6350	31	33H	399	2, 3, 4, 5, 5, 6	1
16440	6400	5	34H	319	2, 3, 4, 5, 5, 6	1
15402	6405	3	34H	319	2, 3, 4, 5, 5, 6	1
15402	6410	2	26H	299	2, 3, 4, 5, 5, 6	2
15401	6500	4	36H	399	2, 3, 4, 5, 5, 6	2
16432	6505	5	36H	350	3, 4, 5, 5, 6	1
16431	6550	5	36H	350	3, 4, 5, 5, 6	1
16407	6650	20	37H	329	3, 4, 5, 5, 6	1

## LATHHEAD RIVER

14303	5150	11	24N	23W	3.4, 5.5	
14304	5150	11	24N	23W	3.4, 5.5	
14305	5150	11	22N	18W	3.1, 5.5	6
14306	5150	20	28N	18W	3.1, 5.5	6
14307	5150	30	28N	18W	3.1, 5.5	6
14308	5150	30	28N	18W	3.1, 5.5	6
14309	5150	30	31N	18W	3.1, 5.5	6
14310	5150	18	28N	18W	3.4, 5.5	6
14311	5150	11	28N	25W	3.4, 5.5	6
14312	5150	30	26N	13W	1.2, 3.3, 5.5, 6	2
14313	5150	18	21N	13W	1.2, 3.3, 5.5, 6	2
14314	5150	30	37N	22W	3.4, 5.5	6
14315	5150	30	37N	22W	3.4, 5.5	6
14316	5150	4000	29	35N	17W	5. P. M.
14317	5150	4000	29	35N	17W	5. P. M.
14318	5150	4000	29	35N	17W	5. P. M.
14319	5150	4000	29	35N	17W	5. P. M.
14320	5150	4000	29	35N	17W	5. P. M.
14321	5150	4000	29	35N	17W	5. P. M.
14322	5150	4000	29	35N	17W	5. P. M.
14323	5150	4000	29	35N	17W	5. P. M.
14324	5150	4000	29	35N	17W	5. P. M.
14325	5150	4000	29	35N	17W	5. P. M.
14326	5150	4000	29	35N	17W	5. P. M.
14327	5150	4000	29	35N	17W	5. P. M.
14328	5150	4000	29	35N	17W	5. P. M.
14329	5150	4000	29	35N	17W	5. P. M.
14330	5150	4000	29	35N	17W	5. P. M.
14331	5150	4000	29	35N	17W	5. P. M.
14332	5150	4000	29	35N	17W	5. P. M.
14333	5150	4000	29	35N	17W	5. P. M.
14334	5150	4000	29	35N	17W	5. P. M.
14335	5150	4000	29	35N	17W	5. P. M.
14336	5150	4000	29	35N	17W	5. P. M.
14337	5150	4000	29	35N	17W	5. P. M.
14338	5150	4000	29	35N	17W	5. P. M.
14339	5150	4000	29	35N	17W	5. P. M.
14340	5150	4000	29	35N	17W	5. P. M.
14341	5150	4000	29	35N	17W	5. P. M.
14342	5150	4000	29	35N	17W	5. P. M.
14343	5150	4000	29	35N	17W	5. P. M.
14344	5150	4000	29	35N	17W	5. P. M.
14345	5150	4000	29	35N	17W	5. P. M.
14346	5150	4000	29	35N	17W	5. P. M.
14347	5150	4000	29	35N	17W	5. P. M.
14348	5150	4000	29	35N	17W	5. P. M.
14349	5150	4000	29	35N	17W	5. P. M.
14350	5150	4000	29	35N	17W	5. P. M.
14351	5150	4000	29	35N	17W	5. P. M.
14352	5150	4000	29	35N	17W	5. P. M.
14353	5150	4000	29	35N	17W	5. P. M.
14354	5150	4000	29	35N	17W	5. P. M.
14355	5150	4000	29	35N	17W	5. P. M.
14356	5150	4000	29	35N	17W	5. P. M.
14357	5150	4000	29	35N	17W	5. P. M.
14358	5150	4000	29	35N	17W	5. P. M.
14359	5150	4000	29	35N	17W	5. P. M.
14360	5150	4000	29	35N	17W	5. P. M.
14361	5150	4000	29	35N	17W	5. P. M.
14362	5150	4000	29	35N	17W	5. P. M.
14363	5150	4000	29	35N	17W	5. P. M.
1						

## CLARK FORK RIVER

[illegible]

ubachte Hydroplot

[illegible]

## HUDSON BAY BASIN

13A03	1	35N	17W	3.9
5600	22	35N	16W	3.9
4900	22	35N	16W	3.9
13A16	27	35N	16W	3.9
13A06	27	35N	16W	3.9
5100	27	35N	16W	3.9
13A08	36	36N	17W	3.9
5800	36	36N	17W	3.9

## MISSOURI RIVER BASIN

BEAVERHEAD RIVER									
Wildly Dick	13010	7600	12	85	104	S,P		3,4,5	1
Carver Creek	12004	7400	32	79	79	P,NSC		2,3,4	11
Christensen Ranch	12006	6000	34	75	79	P,NSC		Nonchly	11
W. S. S. Ranch	12007	7800	21	85	129	S,P		3,4,5	3
Elk Horn Springs	13015	8000	21	85	129	S,P		3,4,5	3
Gold Horn	12059	8100	11	85	169	P,NSC		3,4,5	1
Lakeview Canyon	11011	6700	23	145	29			Nonchly	10
W. S. S. Ranch	12008	7800	27	145	29			Nonchly	10
Lakeview Ridge	11003	7400	27	145	29			1,2,3,4,5	10
Lesli Pass	13001	7400	9	108	134	S,P		3,4	1
Lesli Ridge	13023	8100	6	105	134	S,P		3,4	1
W. S. S. Ranch	12009	7800	18	145	139	S,P		3,4,5	1
White Pine Ridge	12001	8950	18	145	139	S,P		3,4,5	1
RUBY RIVER									
Snake Lake	11014	4850	5	68	29			3,4,5	1,12
Glacier Meadow	11008	8600	26	99	39			3,4,5	1
Divide	12007	7800	16	125	69	S,P		3,4,5	1
Middle Mill Creek	11015	7950	17	45	39			3,4,5	1,12
Snake Lake	11016	7950	17	45	39			3,4,5	1,12
Smelter Mine	12005	6960	25	145	69			3,4,5	1

BIG HOLE RIVER				
13020	8800	7	35	11W
13021	8600	8	36	11W
13022	8450	35	28	16W
13023	8250	35	28	16W
13024	8050	35	28	16W
13025	7850	35	28	16W
13026	7650	35	28	16W
13027	7450	35	28	16W
13028	7250	24	78	10W
13029	7050	11	158	10W
13030	6850	11	158	10W
13031	6650	11	158	10W
13032	6450	11	158	10W
13033	6250	35	28	16W
13034	6050	35	28	16W
13035	5850	29	55	17W
13024	8750			
JEFFERSON RIVER				
12097	7000	8	58	5W
12098	6800	8	58	5W
12099	7700	13	34	5W
12100	6500	16	48	6W
12101	6300	16	48	6W
12102	6100	16	48	6W
12103	5900	16	48	6W
12104	5700	16	48	6W
12105	5500	16	48	6W
12106	5300	16	48	6W
12107	5100	16	48	6W
12108	4900	16	48	6W
12109	4700	16	48	6W
12110	4500	16	48	6W
12111	4300	16	48	6W
12112	4100	16	48	6W
12113	3900	16	48	6W
12114	3700	16	48	6W
12115	3500	16	48	6W
12116	3300	16	48	6W
12117	3100	16	48	6W
12118	2900	16	48	6W
12119	2700	16	48	6W
12120	2500	16	48	6W
12121	2300	16	48	6W
12122	2100	16	48	6W
12123	1900	16	48	6W
12124	1700	16	48	6W
12125	1500	16	48	6W
12126	1300	16	48	6W
12127	1100	16	48	6W
12128	900	16	48	6W
12129	700	16	48	6W
12130	500	16	48	6W
12131	300	16	48	6W
12132	100	16	48	6W
12133	0	16	48	6W
12134	0	16	48	6W
12135	0	16	48	6W
12136	0	16	48	6W
12137	0	16	48	6W
12138	0	16	48	6W
12139	0	16	48	6W
12140	0	16	48	6W
12141	0	16	48	6W
12142	0	16	48	6W
12143	0	16	48	6W
12144	0	16	48	6W
12145	0	16	48	6W
12146	0	16	48	6W
12147	0	16	48	6W
12148	0	16	48	6W
12149	0	16	48	6W
12150	0	16	48	6W
12151	0	16	48	6W
12152	0	16	48	6W
12153	0	16	48	6W
12154	0	16	48	6W
12155	0	16	48	6W
12156	0	16	48	6W
12157	0	16	48	6W
12158	0	16	48	6W
12159	0	16	48	6W
12160	0	16	48	6W
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12163	0	16	48	6W
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12165	0	16	48	6W
12166	0	16	48	6W
12167	0	16	48	6W
12168	0	16	48	6W
12169	0	16	48	6W
12170	0	16	48	6W
12171	0	16	48	6W
12172	0	16	48	6W
12173	0	16	48	6W
12174	0	16	48	6W
12175	0	16	48	6W
12176	0	16	48	6W
12177	0	16	48	6W
12178	0	16	48	6W
12179	0	16	48	6W
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12198	0	16	48	6W
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12216	0	16	48	6W
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12254	0	16	48	6W
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12256	0	16	48	6W
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12262	0	16	48	6W
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12265	0	16	48	6W
12266	0	16	48	6W
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12298	0	16	48	6W
12299	0	16	48	6W
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12327	0	16	48	6W
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12345	0	16	48	6W
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12350	0	16	48	6W
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12357	0	16	48	6W
12358	0	16	48	6W
12359	0	16	48	6W
12360	0	16	48	6W
12361	0	16	48	6W
12362	0	16	48	6W
12363	0	16	48	6W
12364	0	16	48	6W
12365	0	16	48	6W
12366	0	16	48	6W
12367	0	16	48	6W
12368	0	16	48	6W
12369	0	16	48	6W
12370	0	16	48	6W
12371	0	16	48	6W
12372	0	16	48	6W
12373	0	16	48	6W
12374	0	16	48	6W
12375	0	16	48	6W
12376	0	16	48	6W
12377				

## RIVER YELLOWSTONE RIVER

11235	Black Bear	7950	27	155	3E	S.P.	1, 2, 3, 4, 5, 5h, 6	1, 2
11807	Call road	8050	21	85	2M		3, 4, 5, 5	
11808	Four Mile	8050	5	10	2M	P	3, 4, 5, 5	3
11809	Four Mile	8050	5	10	2M		1, 2, 3, 4, 5	
11805	Jack Creek	7950	13	65	1E		3, 4, 5	
11806	Jack Creek	7950	12	65	1E		3, 4, 5	
11810	Lake Basin	7900	32	145	3M		2, 3, 4, 5	1, 2
11811	Lake Basin	7900	32	145	3M		2, 3, 4, 5	1, 2
11812	Medicine Plateau	7750	28	145	3E	S.P.	1, 2, 3, 4, 5, 5h, 6	1, 2
11813	Medicine Plateau	7750	33	105	3E		3, 4, 5	2
11814	Medicine Plateau	7750	33	105	3E		3, 4, 5	2
11821	Promontory Park	7150	30	105	3E		3, 4, 5	2
11822	Promontory Park	7150	30	105	3E		3, 4, 5	2
11820	Sentinel Creek	8300	17	105	3E	S.P.	3, 4, 5	2, 3
11823	Sentinel Creek	8300	17	105	3E	S.P.	3, 4, 5	2, 3
11827	Meat Williamsone	8700	34	135	5E	M.S.	1, 2, 3, 4, 5	1, 3, 6
11828	Meat Williamsone	8700	34	135	5E	M.S.	1, 2, 3, 4, 5	1, 3, 6
11830	Whiskey Creek	6800	19	145	5E	S.P.	1, 2, 3, 4, 5, 5h, 6	2

10036		7350	2	55	4E		1, 2, 3, 4, 5, 5h, 6	1
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GALLATIN RIVER								
10036		7350	2	55	4E		1, 2, 3, 4, 5, 5h, 6	1

## Arch Fallo

Site	Year	Age	Sex	Weight (kg)	Length (cm)	Condition
10001	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10002	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10003	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10004	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10005	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10006	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10007	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10008	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10009	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10010	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10011	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10012	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10013	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10014	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10015	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10016	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10017	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10018	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10019	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10020	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10021	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10022	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10023	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10024	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10025	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10026	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10027	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10028	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10029	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10030	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10031	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10032	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10033	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10034	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10035	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10036	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10037	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10038	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10039	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10040	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10041	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10042	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10043	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10044	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10045	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10046	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10047	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10048	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10049	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10050	1985	30	♂	3.2	1.3, 2.4, 3.5	1
10051	1985	30	♂	3.2	1.3, 2.4, 3.5	

120	Cheesman Reservoir
1000	Daadman Creek
1000	Elk Peak
1201	Prohner Meadows

[illegible]

## TETON - MARIAS RIVERS

[illegible]

## JUDITH RIVER

[illegible]

Model	Days/ Rank	34	11N	11E	3,4,5
10015	7600				2
10016	7600				2
10017	7600				2
10014	68N	24	10E	10E	2
10015	68N	10E			2
10011	8550	16	11N	12E	2
10011	8550	16	11N	12E	2
10012	8540	16	10N	11E	2

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[illegible]

## RIVER YELLOWSTONE RIVER

10095	7590	12	98	1	3, 4, 5
10096	7590	12	98	1	3, 4, 5
10097	7590	12	98	1	3, 4, 5
10098	7590	12	98	1	3, 4, 5
10099	7590	12	98	1	3, 4, 5
10100	7590	12	98	1	3, 4, 5
10101	7590	12	98	1	3, 4, 5
10102	7590	12	98	1	3, 4, 5
10103	7590	12	98	1	3, 4, 5
10104	7590	12	98	1	3, 4, 5
10105	7590	12	98	1	3, 4, 5
10106	7590	12	98	1	3, 4, 5
10107	7590	12	98	1	3, 4, 5
10108	7590	12	98	1	3, 4, 5
10109	7590	12	98	1	3, 4, 5
10110	7590	12	98	1	3, 4, 5
10111	7590	12	98	1	3, 4, 5
10112	7590	12	98	1	3, 4, 5
10113	7590	12	98	1	3, 4, 5
10114	7590	12	98	1	3, 4, 5
10115	7590	12	98	1	3, 4, 5
10116	7590	12	98	1	3, 4, 5
10117	7590	12	98	1	3, 4, 5
10118	7590	12	98	1	3, 4, 5
10119	7590	12	98	1	3, 4, 5
10120	7590	12	98	1	3, 4, 5
10121	7590	12	98	1	3, 4, 5
10122	7590	12	98	1	3, 4, 5
10123	7590	12	98	1	3, 4, 5
10124	7590	12	98	1	3, 4, 5
10125	7590	12	98	1	3, 4, 5
10126	7590	12	98	1	3, 4, 5
10127	7590	12	98	1	3, 4, 5
10128	7590	12	98	1	3, 4, 5
10129	7590	12	98	1	3, 4, 5
10130	7590	12	98	1	3, 4, 5
10131	7590	12	98	1	3, 4, 5
10132	7590	12	98	1	3, 4, 5
10133	7590	12	98	1	3, 4, 5
10134	7590	12	98	1	3, 4, 5
10135	7590	12	98	1	3, 4, 5
10136	7590	12	98	1	3, 4, 5
10137	7590	12	98	1	3, 4, 5
10138	7590	12	98	1	3, 4, 5
10139	7590	12	98	1	3, 4, 5
10140	7590	12	98	1	3, 4, 5
10141	7590	12	98	1	3, 4, 5
10142	7590	12	98	1	3, 4, 5
10143	7590	12	98	1	3, 4, 5
10144	7590	12	98	1	3, 4, 5
10145	7590	12	98	1	3, 4, 5
10146	7590	12	98	1	3, 4, 5
10147	7590	12	98	1	3, 4, 5
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103					

22 95

[illegible]

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3	103	0
2	104	0
1	105	0
0	106	0

[illegible]

11/ Blank refers to snow course only at site

### LEGEND

2/ Numerals 1,2,3,4,5,5<sub>h</sub>,6 refer to snow course or aerial marker measurements on January 1, February 1, March 1, April 1, May 1, and June 1. Most snow pillows, temperature, and wind run are daily readings, most precipitation gages and soil moisture are read monthly.

3/ Numerale refer to agency making the snow surveys as follows

1. Soil Conservation Service
2. Forest Service
3. Geological Survey
4. U.S. Fish and Wildlife Service
5. Bureau of Indian Affairs
6. National Park Service
7. MSU Agricultural Experiment Station
8. University of Montana School of Forestry
9. Department of Geology, Mines and Energy
10. Montana Department of Fish and Wildlife
11. Private Contractor
12. Montana Association of Conservation Districts
13. Montana Department of Fish and Game

# Agencies and Organizations Cooperating in Montana Snow Surveys

## GOVERNMENT AGENCIES

### Canada:

Water Survey of Canada, Calgary, Department of the  
Environment  
Water Resources Service, Department of Lands, Forests  
and Water Resources, British Columbia

### Federal:

Department of the Army  
Corps of Engineers  
U.S. Department of Agriculture  
Forest Service  
Soil Conservation Service  
U.S. Department of Commerce  
NOAA, National Weather Service  
U.S. Department of the Interior  
Bonneville Power Administration  
Bureau of Indian Affairs  
Bureau of Reclamation  
Fish and Wildlife Service  
Geological Survey  
National Park Service

## STATE

Montana Association of Conservation Districts  
Montana Department of Fish and Game  
Montana Department of Natural Resources and  
Conservation  
Montana State University - Agricultural Experiment  
Station  
University of Montana - School of Forestry

## PRIVATE

Montana Power Company

Other organizations and individuals furnish valuable  
information for snow survey reports. Their cooperation  
is gratefully acknowledged.



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generation, navigation,  
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*"The Conservation of Water begins  
with the Snow Survey"*

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